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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO.

09/197.98700 11/23/98

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PAPER NUMBER

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Please find below and/or attached an Office communication concerning this application or proceeding

Commissioner of Patents and Trademarks

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	Application No.	Applicant(s)	
Office Action Summary	Examiner	Group Art Unit	
The MAILING DATE of this communication appears	on the cover sheet b	eneath the correspondence address	
Period for Response	'		
A SHORTENED STATUTORY PERIOD FOR RESPONSE IS SET TO EXPIRE MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.			
 Extensions of time may be available under the provisions of 37 CFR 1.13 from the mailing date of this communication. If the period for response specified above is less than thirty (30) days, and If NO period for response is specified above, such period shall, by default. Failure to respond within the set or extended period for response will, by 	response within the statuto	ry minimum of thirty (30) days will be considered tin from the mailing date of this communication .	
Status			
☐ Responsive to communication(s) filed on			
☐ This action is FINAL .			
 Since this application is in condition for allowance except for accordance with the practice under Ex parte Quayle, 1935 			
Disposition of Claims			
∑ Claim(s) 1 - 13		is/are pending in the application.	
Of the above claim(s)		is/are withdrawn from consideration.	•
□ Claim(s)			
X Claim(s) 1-13	<u> </u>	is/are rejected.	
. □ Claim(s)		is/are objected to.	
□ Claim(s)		are subject to restriction or election requirement.	
Application Papers			
☐ See the attached Notice of Draftsperson's Patent Drawing I			
☐ The proposed drawing correction, filed on is/are objected	• •	☐ disapproved.	
☐ The drawing(s) filed on is/are objected ☐ The specification is objected to by the Examiner.	a to by the Examiner.		
☐ The oath or declaration is objected to by the Examiner.			
Priority under 35 U.S.C. § 119 (a)-(d)			
 □ Acknowledgment is made of a claim for foreign priority under complex complex complex of the CERTIFIED copies of the complex co	e priority documents ha	ave been	
□ received in this national stage application from the Interr			
*Certified copies not received:	··. · · · · · · · · · · · · · · · · · ·		
Attachment(s)			
☐ Information Disclosure Statement(s), PTO-1449, Paper No(nterview Summary, PTO-413	50
Notice of References Cited, PTO-892		lotice of Informal Patent Application, PTO-1	
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948	LIC	Other	
Office A	Action Summary		

Application/Control Number: 09/197,987 Page 2

Art Unit: 3612

DETAILED ACTION

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 3,4,7,8,11 and 12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 3 and 11, the relationship of the "retractable fore and aft supports" to those previously set forth is unclear.

In claim 7 "for manual control to further selectively modify" is not understood. If the fathometer means provides signals for manual control, how does this "selectively modify the hydrofoil elevation" as claimed. Such, as claimed, implies automatic control in response to sensed depth.

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Art Unit: 3612

4. Claims 1-6,10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japan '893 in view of Ask.

Japan '893 teaches the field of the invention, including a pair of buoyant "hydrofoils" 2. The hydrofoils are each supported by separately extensible and retractable fore and aft supports 4,6 and 8. Although not shown, a turning mechanism is an inherent feature of such a craft. The hydrofoils are raised and lowered to control hull oscillation. Japan '893 fails to discuss (as best understood) the use of sensors to sense roll and pitch as are known in the art for use in controlling the hydrofoils.

Ask teaches a hydrofoil craft in which sensors are employed to control hydrofoils. Such sensors include roll, pitch, yaw, and velocity sensors, as well as a rudder position sensor.

It would have been obvious to one of ordinary skill in the art at the time of the invention to employ roll and pitch sensors on the watercraft of Japan '893 to aid in control of the hydrofoils as taught by Ask.

Such a combination would have been desirable at the time of the invention was made so as to provide for an effective means to measure watercraft orientation, thereby providing the necessary information to provide effective control of the hydrofoils.

5. Claims 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japan '893 in view of Ask as applied to claim 5 above, and further in view of old and well known prior art.

Japan '893 as modified fails to teach the use of a depth sensor for control of the hydrofoils.

Application/Control Number: 09/197,987

Art Unit: 3612

205

Page 4

It is notoriously old and well known in the marine environment to provide a depth sensing device on board so as to provide an indication to the operator of the possibility of running into dangerously shallow water, and it would have been obvious to one of ordinary skill in the art at the time of the invention to provide such a sensor on the watercraft of Japan '893.

6. Claims 8, 12 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japan '893 in view of Ask as applied to claims 1,7 and 10 above, and further in view of Stout et al.

Japan '893 fails to teach the location of the propulsion units.

Stout et al. teaches hydrofoils attached to the bottom of the hull. Each hydrofoil carries a propulsion unit.

It would have been obvious to one of ordinary skill in the art at the time of the invention to provide each hydrofoil of Japan '893 with a propulsion unit as taught by Stout et al.

Such a combination would have been desirable at the time of the invention was made so as to provide for the ability to provide continued propulsion even though the primary hull is lifted from the water.

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Spinka teaches hydrofoil height adjustment in response to signals from a gyroscope, or roll sensor.

Magazzù teaches roll alleviation by hydrofoil adjustment.

Art Unit: 3612

- 8. Papers relating to this application may be submitted to Technology Center 3600 by facsimile transmission. The submission of such papers by facsimile transmission must comply with the notice published in the Official Gazette, **1096 OG 30** (November 15, 1989). The Fax Center number is (703)-305-3597.
- 9. Any inquiry concerning this communication should be directed to Ed L. Swinehart whose telephone number is (703)-308-2566.
- 10. Any inquiry of a general nature or relating to the status of the application should be directed to the Technology Center 3600 receptionist whose telephone number is (703)-308-1113.

February 10, 1999

Ed L. Swinehart Primary Examiner Art Unit 3612